

# Lowell Regional Water Utility

The Lowell Regional Water Utility (LRWU) produces more than 4.7 billion gallons of fine drinking water to serve the communities of Lowell, Dracut, Tyngsboro, and Chelmsford. LRWU continues its focus on improving water service to the population it serves and has recently completed a renovation project of the pumping and distribution system facilities. This project will further improve the water quality and pressure while focusing on improving water service reliably delivered to consumers, for many years to come. With the completion of this upgrade, the LRWU is now a showplace for all to be proud of.

## Project Summary

### Efficient Mechanical Equipment and Systems

- Variable Frequency Drives for pumps
- Magna Drive for pump
- Constant Speed Drive for pump



## Strategic Partners

**Waterline Industries Co. – Installation Contractor**  
145 Batchelder Road Seabrook, N.H. 03874

**National Grid**



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Pawtucket Blvd., Lowell, MA

## Savings Summary

**The need – System was in need of upgrading to a more efficient and reliable system**

**The solution – Energy efficient pump motor installations (VFD'S)**

Project Cost	\$ 358,813.00
National Grid Incentive	\$ 67,736.00
Customer Cost	\$ 291,077.00
Simple Payback	2.0Years

Estimated Annual Electric Energy Savings	1,445,267 kWh
Estimated Annual Energy Cost Savings	\$ 145,538.39
CO <sub>2</sub> Lifetime Reduction	953 tons
SO <sub>2</sub> Lifetime Reduction	2 tons
NOX Lifetime Reduction	1 ton

**nationalgrid**